

Being duly sworn, We, Kenneth L. Smith, Tzu-Li J. Huang, and James C. Coderre, depose and say that: (1) our respective residences, citizenships, and mailing addresses are indicated below; (2) we have reviewed and understand the contents of attached specification, including the claims, as amended by any amendment specifically referred to herein; (3) we verily believe that we are the original, first, and joint inventors or discoverers of the invention or discovery in

described and claimed therein and for which a patent is sought; and (4) we hereby acknowledge our duty to disclose to the Patent and Trademark Office all information known to us to be material to the patentability as defined in Title 37, Code of Federal Regulations, §1.56*.

We hereby appoint Gary L. Griswold (Reg. No. 25,396), Walter N. Kirn (Reg. No. 21,196), Roger R. Tamte (Reg. No. 21,093), Warren R. Bovee (Reg. No. 26,434), Gerald F. Cherniavec (Reg. No. 26,537), Carolyn A. Bates (Reg. No. 27,853), John C. Barnes (Reg. No. 20,278), and Karl G. Hanson (Reg. No. 32,900) our attorneys with full powers (including the powers of appointment, substitution, and revocation) to prosecute this application and any division, continuation, continuation-in-part, reexamination, or reissue thereof, and to transact all business in the Patent and Trademark Office connected therewith; the mailing address and the telephone number of the above-mentioned attorneys are

Attention: Karl G. Hanson
3M Office of Intellectual Property Counsel
P.O. Box 33427
St. Paul, Minnesota 55133-3427
Telephone No. (612) 733-1500

Wherefore, we pray that Letters Patent be granted to us for the invention or discovery described and claimed in the attached specification and we hereby subscribe our names to the foregoing specification and claims, oath, power of attorney, and this petition, this 20 day of October, 1993.

Kenneth F Smith

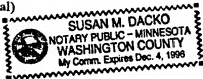
Residence: Kenneth L. Smith
City of White Bear Lake, County of Ramsey, State of Minnesota
Citizenship: United States of America
Post Office: P.O. Box 33427
Address: St. Paul, Minnesota 55133-3427

STATE OF MINNESOTA }
COUNTY OF RAMSEY } ss.

Before me personally appeared Kenneth L. Smith, to me known to be the person described in the above application for patent, who signed the foregoing instrument in my presence, and made oath before me to the allegations set forth therein as being under oath, on the day and year aforesaid.

Susan M. Danko

Notary Public



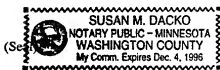
*Title 37, Code of Federal Regulations, §1.56 is reproduced on the back of this page
This form may be executed only when attached to the specification (including claims) as the last page thereof. O-SN-Jnt-031392

Wherefore, we pray that Letters Patent be granted to us for the invention or discovery described and claimed in the attached specification and we hereby subscribe our names to the foregoing specification and claims, oath, power of attorney, and this petition, this 20 day of October, 1993.

Tzu-Li J. Huang
 Residence: Tzu-Li J. Huang
 City of Woodbury, County of Washington, State of Minnesota
 Citizenship: United States of America
 Post Office: P.O. Box 33427
 Address: St. Paul, Minnesota 55133-3427

STATE OF MINNESOTA }
 ss.
 COUNTY OF RAMSEY }

Before me personally appeared Tzu-Li J. Huang, to me known to be the person described in the above application for patent, who signed the foregoing instrument in my presence, and made oath before me to the allegations set forth therein as being under oath, on the day and year aforesaid.



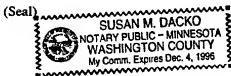
Susan M Dacko
 Notary Public

Wherefore, we pray that Letters Patent be granted to us for the invention or discovery described and claimed in the attached specification and we hereby subscribe our names to the foregoing specification and claims, oath, power of attorney, and this petition, this 20 day of October, 1993.

James C. Coderre
 Residence: James C. Coderre
 City of Lake Elmo, County of Washington, State of Minnesota
 Citizenship: United States of America
 Post Office: P.O. Box 33427
 Address: St. Paul, Minnesota 55133-3427

STATE OF MINNESOTA }
 ss.
 COUNTY OF RAMSEY }

Before me personally appeared James C. Coderre, to me known to be the person described in the above application for patent, who signed the foregoing instrument in my presence, and made oath before me to the allegations set forth therein as being under oath, on the day and year aforesaid.



Susan M Dacko
 Notary Public